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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A single plate type solid-state image pickup device having

primary-color type color filters, characterized in that gray filters are arranged at specific

pixels of the arrangement of the three primary color filters, said image pickup device further

comprising means for applying carrier balance so that said gray filters have substantially the

same frequency characteristic as the other three primary color filters.

2. (Original) The single plate type solid-state image pickup device as claimed in

claim 1, wherein the color arrangement of said color filters is Bayer arrangement, and green

filters that are adjacent to red filters in the horizontal direction or green filters that are

adjacent to blue filters in the horizontal direction are replaced by said gray filters.

3. (Cancelled)

Please add the following new claims:

4. (New) The single plate type solid-state image pickup device as claimed in claim 1,

further comprising white balance correction means for correcting the white balance of the

signal output from the carrier balance means.

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5. (New) The single plate type solid-state image pickup device as claimed in claim 4,

further comprising interpolation means for interpolating the signal output from the white

balance correction means in order to generate three separate primary color image signals.

6. (New) The single plate type solid-state image pickup device as claimed in claim 5,

further comprising aperture control means for generating an aperture control signal for

application to each of the three primary color image signals output from the interpolation

means.

7. (New) The single plate type solid-state image pickup device as claimed in claim 6,

further comprising gamma correction means for correcting the gamma characteristic of each

of the three primary color image signals after application of the aperture control signal.

8. (New) The single plate type solid-state image pickup device as claimed in claim 1,

wherein the color arrangement of said color filters is g-stripe arrangement, and every other

green filter in each column of g-stripe arranged green filters are replaced by said gray filters.

9. (New) A single plate type solid-state image pickup device having red, green, blue,

and gray color filters, characterized in that the gray filters are arranged at specific pixels of

the arrangement of the three primary color filters, and wherein the transmissivity of the gray

filter is set so that the integration value in the visible region is substantially equal to that of

the green filters.

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10. (New) A single plate type solid-state image pickup device having red, green, blue,

and gray color filters, characterized in that the gray filters are arranged at specific pixels of

the arrangement of the three primary color filters, and wherein the transmissivity of the gray

filter is set so that the integration value in the visible region is below that of the green filters.